

FIG. 1

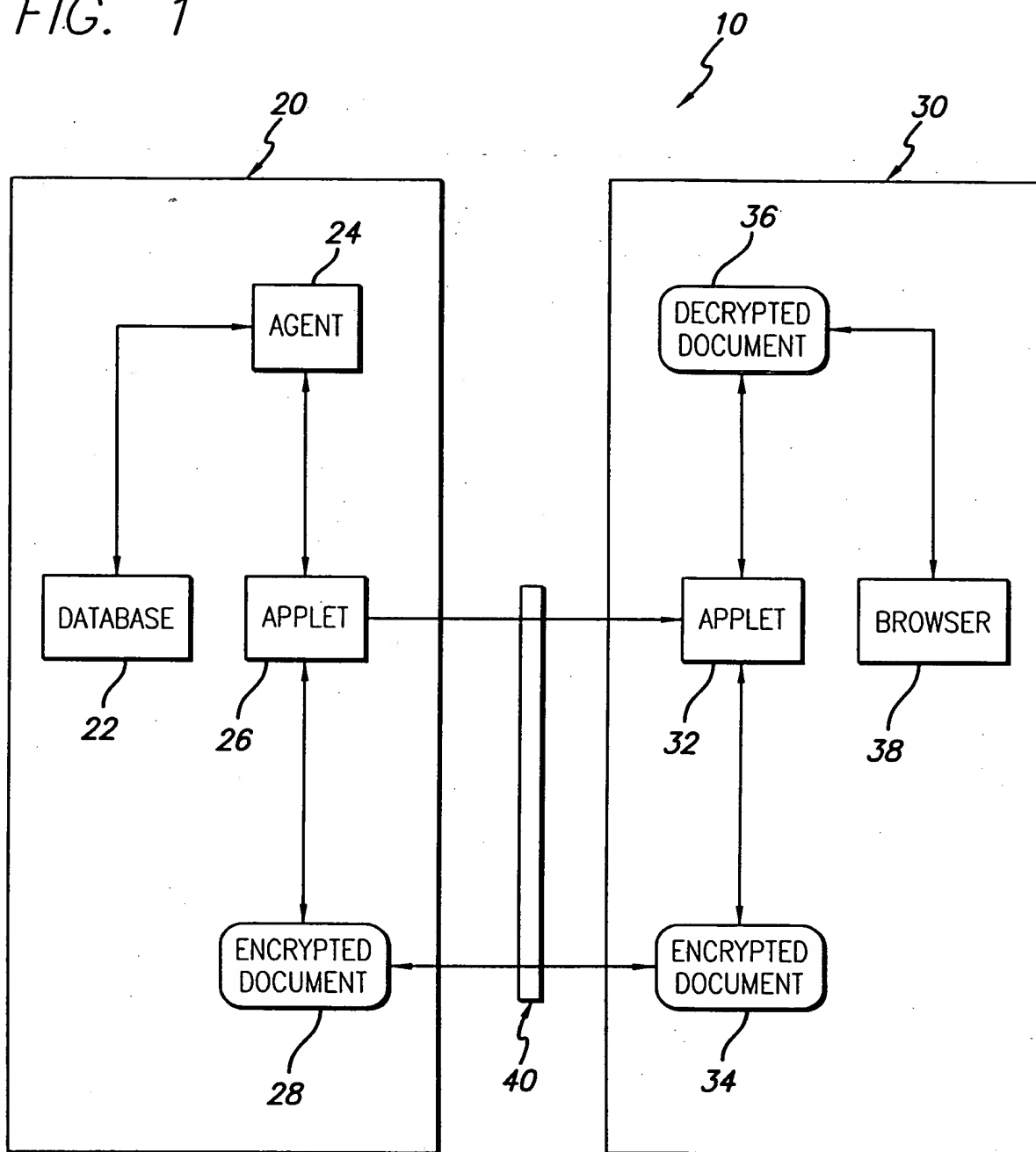


FIG. 2(a)

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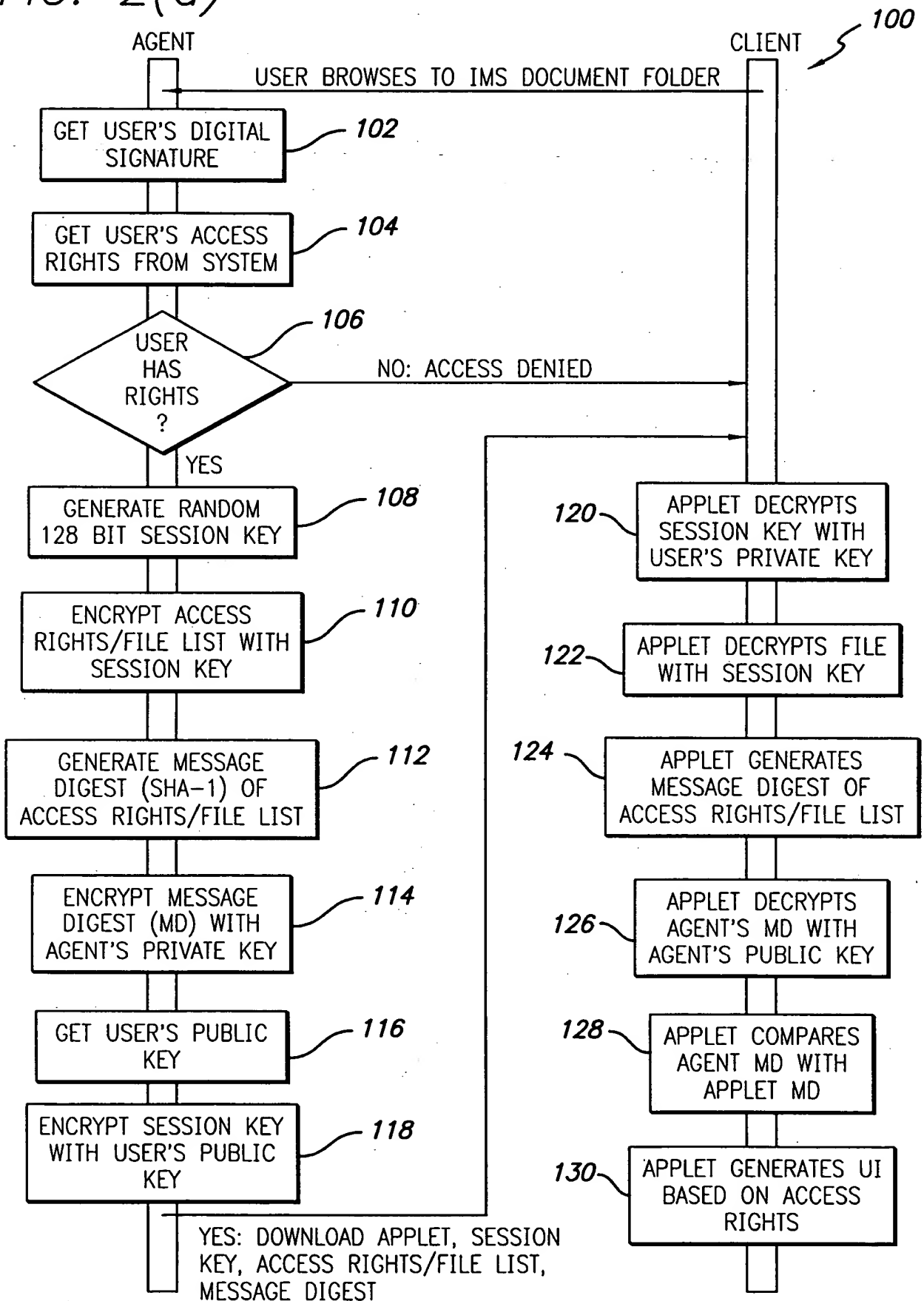
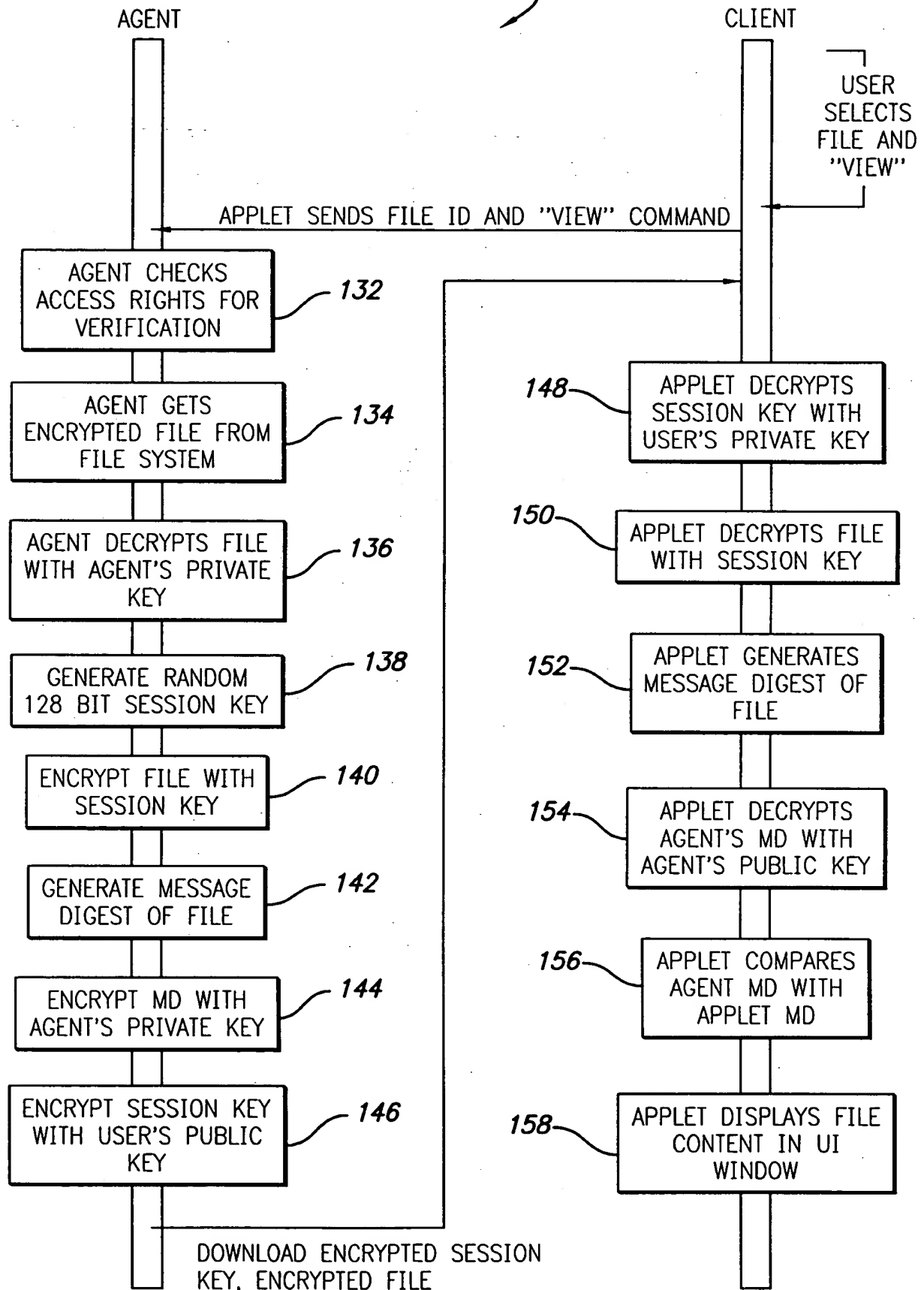


FIG. 2(b)

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100



0978446 "021404"

AGENT

AGENT

FIG. 2(c)

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CLIENT

USER  
SELECTS  
"MODIFY"

USER  
MODIFIES  
FILE

CLIENT

USER  
SELECTS  
"SUBMIT  
CHANGES"

100

160

APPLET ADDS TAGS FOR  
USER'S CHANGES

162

GENERATE RANDOM  
128 BIT SESSION KEY

164

ENCRYPT FILE WITH  
SESSION KEY

166

GENERATE MESSAGE  
DIGEST OF FILE

168

ENCRYPT MD WITH  
APPLET'S PRIVATE KEY

170

ENCRYPT SESSION KEY  
WITH USER'S PRIVATE  
KEY

APPLET SENDS ENCRYPTED FILE,  
SESSION KEY AND MESSAGE DIGEST

AGENT DECRYPTS  
SESSION KEY WITH  
USER'S PUBLIC KEY

172

AGENT DECRYPTS FILE  
WITH SESSION KEY

174

AGENT GENERATES  
MESSAGE DIGEST OF  
FILE

176

AGENT DECRYPTS  
APPLET'S MD WITH  
APPLET'S PUBLIC KEY

178

AGENT COMPARES  
AGENT MD WITH  
APPLET MD

180

AGENT ADDS TAGS FOR  
USER, SUBMISSION  
TIME AND DATE

182

AGENT ENCRYPTS FILE  
WITH AGENT'S PUBLIC  
KEY

184

AGENT WRITES  
ENCRYPTED FILE TO FILE  
SYSTEM

186

09/04/15 09:44:31

AGENT

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100

CLIENT

USER SELECTS  
"VIEW  
HISTORY"

188

APPLET DISPLAYS  
DOCUMENT HISTORY IN  
UI WINDOW

FIG. 2(e)